|  |
| --- |
| **Fitting a Multiple Linear Regression with Two Numerical Variables**  my\_model <- lm(<RESPONSE> **~** <EXPLANATORY VARIABLE 1> **+** <EXPLANATORY VARIABLE 2>**,**  data = <NAME OF DATASET>)  ***Note:*** The **~** is necessary! It has to be there! |
| **Fitting a Different Slopes (Interaction Model)**  my\_model <- lm(<RESPONSE> **~** <CATEGORICAL EXPLANATORY VARIABLE> **\***  <NUMERICAL EXPLANATORY VARIABLE>**,**  data = <NAME OF DATASET>)  ***Note:*** To get different slopes, you must have a **\*** between your categorical variable and your numerical variable |
| **Fitting a Parallel Slopes (Additive Model)**  my\_model <- lm(<RESPONSE VARIABLE> **~** <CATEGORICAL EXPLANATORY VARIABLE> **+**  <NUMERICAL EXPLANATORY VARIABLE>**,**  data = <NAME OF DATASET>)  ***Note:*** To get parallel slopes, you must have a **+** between your categorical variable and your numerical variable |
| **Obtaining Coefficient Table**  get\_regression\_table(my\_model,  conf.level = 0.95)  ***Note:*** You need to have fit the linear regression **before** this step!  ***Note:*** If you want a 90% confidence interval, you change conf.level to 0.90 |
| **Obtaining Model Summaries**  get\_regression\_summaries(my\_model)  ***Note:*** You need to have fit the linear regression **before** this step! |

|  |
| --- |
| **Fitting a Multiple Linear Regression with Every Explanatory Variable**  my\_model <- lm(<RESPONSE VARIABLE> **~** **.,** data = <NAME OF DATASET>)  ***Note:*** The **.**stands in for **every** variable in the dataset (which is not the response variable), so this model will have as many explanatory variables as there are variables in the dataset! |
| **Fitting a Multiple Linear Regression with Every Explanatory Variable – Except One (or Two) 😊**  my\_model <- lm(<RESPONSE VARIABLE> **~** **. -**<EXPLANATORY VARIABLE OF NO INTEREST>**,**  data = <NAME OF DATASET>)  ***Note:*** The **.**stands in for **every** variable in the dataset (which is not the response variable), and the **–** says “except this variable”. So, if you want to remove two variables you would need to have a **–** sign in front of **both** variables. |